

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:	)			
Magdalena MIK, Jay S. WALKER, Daniel E. TEDESCO, Andrew S. VAN LUCHENE and James A. JORASCH	) ) ) Examıner: To be assigned )			
for SYSTEM AND METHOD FOR PROCESSING A CHARGE APPLIED TO A FINANCIAL ACCOUNT	) ) Group Art Unit: To be assigned )			
Serial No.: To be assigned	) )			
Filed: June 16, 1998	) ) Docket No.: WD2-98-017			
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I hereby certify that the attached papers or fees:  Transmittal Letter (in dupl.) Patent Application (45 pages) Formal Drawings (17 sheets – Figs. 1-16) Combined Declaration and Power of Attorney Verified Statement Claiming Small Entity Status Assignment with Recordation Cover Sheet Information Disclosure Statement, Form PTO-1449 and Copie Postcard  are being deposited with the United States Postal Serv Addressee" service under 37 CFR 1.10 on the date indicate	vice "Express Mail Post Office to ted above and is addressed to Box			
Patent Application, Assistant Commissioner for Patents, Wash	migron, 5.0. 2020 I.			
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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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#### APPLICATION TRANSMITTAL LETTER

Transmitted herewith for filing under 35 U.S.C. §111(a) and 37 C.F.R. §1.53(b) is a new utility patent application of:

Inventor	r(s): Magdalena MIK VAN LUCHENE	MIK, Jay S. WALKER, Daniel E. TEDESCO, Andrew S.  NE and James A. JORASCH				
for:	SYSTEM AND METHO	D FOR PROCESSING A CHARGE APPLIED TO A				
□ This	application is a:	□ CONTINUATION				
		□ CONTINUATION-IN-PART				
		□ DIVISIONAL				
of pric	or application no(s)					
0	With respect to the inventorship of the co-pending parent application, from which this application claims benefit under 35 U.S.C. § 120, the inventor(s) in this application is (are) less than those named in the co-pending parent application and the following inventor(s) should be deleted from this application:					
	Inventor(s)					

### Papers Enclosed:

#### Enclosed are:

45 Page Application, including 16 pages of claims and 1 page of Abstract
17 Sheets of formal drawings/Figs 1-16
Express Mail Certificate
An Assignment of the Invention to Walker Asset Management Limited Partnership with Recordation
Cover Sheet
Verified Statement Claiming Small Entity Status (Small Business Concern)
Information Disclosure Statement, Form PTO-1449 and Copies of references
Combined Declaration and Power of Attorney
Preliminary Amendment
Other.

#### Fee Calculation:

The filing fee has been calculated as shown below

	(Col. 1)	(Col. 2)		SMALL ENTITY		LARGE ENTITY			
FOR:	NO FILED	NO. EXTRA		RATE	FEE	OR	RATE		
BASIC FEE					\$395	OR			
TOTAL CLAIMS	53 - 20 =	33		X \$11 =	\$363	OR	X \$22 =		
INDEPENDENT CLAIMS	27 - 3 =	24		X \$41 =	\$984	OR	X \$82 =		
MULTIPLE DEPENDEN	MULTIPLE DEPENDENT CLAIMS PRESENTED: 0				\$0	OR	X \$260=		
*If the difference in Col 1 is less than zero, enter "0" in Col. 2 TOTAL \$1742 OR TOTAL							TOTAL		
Method of Payment:	Method of Payment:								
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The Assistant Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.16 or § 1.17 which may be required during the pendency of this application, or to credit any overpayment, to Deposit Account No50-0271									
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# METHOD AND APPARATUS FOR PROCESSING A CHARGE APPLIED TO A FINANCIAL ACCOUNT

# CROSS-REFERENCE TO RELATED APPLICATIONS

The following commonly owned, co-pending applications, Patent Application Serial No. 08/883,308, entitled "SYSTEM AND METHOD FOR ESTABLISHING AND EXECUTING FUNCTIONS TO AFFECT CREDIT CARD ACCOUNTS AND TRANSACTIONS", filed June 26, 1997, and Patent Application Serial No. \_\_\_\_\_\_, Attorney Docket No. WD2-97-134, entitled "METHOD AND SYSTEM FOR CONTROLLING AUTHORIZATION OF CREDIT CARD TRANSACTIONS", filed March 6, 1998, are incorporated by reference herein as part of the present disclosure.

## FIELD OF THE INVENTION

The present invention relates to methods and apparatus for processing charges applied to financial accounts.

# BACKGROUND OF THE INVENTION

Many people are reimbursed by third parties for their purchases. In many cases, such reimbursement arises from a business relation. For example, an employer may reimburse an employee's purchases that are business related. Similarly, an insurer may reimburse all or some portion of an insured party's medical expenses.

The reimbursing party typically requires documentation to verify (i) that the stated amount was actually spent on the purchase, and (ii) that the purchase is of the type that the reimbursing party is willing to pay for. A party to be reimbursed may submit receipts that

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support his request for reimbursement. The reimbursing party in turn evaluates the submitted documentation, and approves or rejects the request for reimbursement.

Many people use "card-based" financial accounts, such as credit card accounts and debit card accounts, to pay for their purchases. Such card-based financial accounts can provide a secure, flexible and convenient way to pay for many purchases. Parties that use such card-based financial accounts typically receive paper "charge slips" for each transaction (e.g. a purchase or a refund), as well as monthly billing statements documenting transactions made with the card-based financial account. Accordingly, purchases made with card-based financial accounts can readily support requests for reimbursement.

Unfortunately, known processes for evaluating and approving requests for reimbursement suffer substantial shortcomings. Most reimbursing parties are not able or willing to rapidly process documentation supporting requests for reimbursement. Data entry, bureaucratic procedures and manual evaluation of documentation delay the eventual approval or rejection of a request for reimbursement. In addition, data entry may introduce errors, and documentation may be misplaced by either the reimbursing party or the party to be reimbursed. Consequently, the party to be reimbursed may wait long periods of time after a purchase before receiving the corresponding reimbursement. In addition, the reimbursing party often incurs substantial costs in processing requests for reimbursement.

Further shortcomings are particular to parties that use card-based financial accounts. Charge slips and billing statements typically identify the financial account, for example, by credit card account number. Thus, submitting such documentation reveals the financial account to many parties involved in reimbursement approval, and the financial account may therefor become more susceptible to fraudulent use. Blocking the credit card account

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number from copies of such documentation can be time-consuming and error-fraught for the party to be reimbursed.

In addition, charges to a card-based financial account may be increased by interest

and other penalties if the reimbursing party does not provide reimbursement in a timely manner.

Thus, the party to be reimbursed may be forced to pay amounts for which he may never be reimbursed. In addition, even if reimbursement is forthcoming, a card holder may have a large amount of charges to be reimbursed. Consequently, he may be close to his balance limit and unable to apply further charges to his account.

To support reimbursement, many employers provide employees with "corporate" credit cards. Corporate credit cards, issued by banks to employers, enable employees to conduct business at the employer's expense. For example, a corporate credit card may be used to purchase entertainment for clients, supplies and travel services. However, employees may abuse the spending privileges afforded by corporate credit cards. Consequently, many employers must thoroughly audit billing statements to ensure the proper use of corporate credit cards. As described above, processing the documentation that supports a request for reimbursement can be burdensome, time consuming and inaccurate. In addition, some types of corporate cards impose liability for all charges on the reimbursing party, which is often undesirable.

To attempt to limit corporate credit card abuse, some corporate credit cards enable the employer to prevent certain types of purchases. For example, First Bank's "Corporate Relocation Card" allows employers to give their employees corporate credit cards to use when relocating. Employers can prevent use of the corporate credit card at certain merchant types, such as bars and casinos. Typically, the issuing bank stores a list of any SIC codes (Standard Industrial Classification codes) or MCCs (Merchant Category Codes) that have been selected to

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be disallowed by the employer. When the bank receives a request to authorize a charge on the employee's corporate credit card, the bank verifies that the corresponding merchant code is not disallowed. Unfortunately, preventing use of the corporate credit card at certain merchant types does not prevent the employee from overspending at an allowed merchant.

Some accounting software is designed to make auditing corporate credit card accounts more accurate or efficient. For example, Visa provides InfoSpan 2.0 Intelligent Information Management software for use in managing "Visa Corporate" and "Visa Purchasing" accounts. The software is intended to enable employers to "streamline accounting processes" and "reduce administrative expenses," as well as "ensure card spending complies with company policy."

While these products may facilitate the management of corporate credit card accounts, reimbursement will typically remain a lengthy process, and abuse of reimbursement privileges can continue with known systems and methods for reimbursement. It would be advantageous to make the reimbursement process more efficient and convenient for both reimbursing parties and parties to be reimbursed.

## SUMMARY OF THE INVENTION

It is an object of the present invention to make the reimbursement process more efficient and convenient for both reimbursing parties and parties to be reimbursed.

In accordance with the present invention, a billing server receives charge data from a card authorization terminal. The charge data indicates a transaction amount, such as a purchase price, and a first financial account, such as a credit card account. The billing server determines a second financial account that corresponds to the first financial account. For

example, the second financial account may be the financial account of an insurance company or other reimbursing party. The billing server also determines a reimbursement amount that corresponds to the first financial account, and the second financial account is charged the reimbursement amount. Thus, a portion or all of the transaction amount is paid by a reimbursing party.

The second financial account is charged only if a reimbursement rule is satisfied. For example, only purchases made at certain types of merchants may be reimbursed. In addition, the billing server may first request approval (e.g., from the reimbursing party) before charging the second financial account.

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## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic illustration of an embodiment of a reimbursement system provided in accordance with the present invention.

FIG. 2 is a schematic illustration of a billing server of the reimbursement system of FIG. 1.

FIG. 3 is a schematic illustration of an account holder database of the billing server of FIG. 2.

FIG. 4 is a schematic illustration of a reimbursing party database of the billing server of FIG. 2.

FIG. 5 is a schematic illustration of an exemplary record of a transaction database of the billing server of FIG. 2.

FIG. 6 is a schematic illustration of an exemplary record of a reimbursement rules database of the billing server of FIG. 2.

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FIG. 7 is a schematic illustration of an exemplary record of a billing statement database of the billing server of FIG. 2.

FIG. 8 is a flowchart illustrating a method for processing a charge applied to a financial account.

FIG. 9 is a schematic illustration of another embodiment of a reimbursement system provided in accordance with the present invention.

FIG. 10 is a schematic illustration of another embodiment of a record of the reimbursement rules database of the billing server of FIG. 2.

FIGS. 11A and 11B are a flowchart illustrating another method for processing a charge applied to a financial account.

FIG. 12 is a schematic illustration of an exemplary record of another embodiment of the billing statement database of the billing server of FIG. 2.

FIG. 13 is a plan view of an exemplary billing statement printed in accordance with the present invention.

FIG. 14 is a plan view of another exemplary billing statement printed in accordance with the present invention.

FIG. 15 is a schematic illustration of an account alias database.

FIG. 16 is a flowchart illustrating another method for processing a charge applied to a financial account.

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# DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

A method and apparatus are provided whereby a portion or all of a transaction amount is charged to the account of a reimbursing party. Compared to known methods and

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apparatus for reimbursement, the present invention makes the reimbursement process more efficient and convenient for both reimbursing parties and parties to be reimbursed. Such reimbursement may be driven by a business relation, such as when an employer reimburses an employee's purchases, or when an insurer reimburses all or some portion of an insured party's medical expenses. Alternatively, such reimbursement may be driven by generosity or altruism, such as when a relative pays for a gift, or when an employee's donation is matched according to an employer gift-matching program.

Although the term reimbursement and other variations thereof is used herein, those skilled in the art will understand that such terms are convenient labels that do not necessarily imply that there is compensation for money spent or losses incurred by another.

Referring to FIG. 1, in one embodiment a reimbursement system 10 includes a card authorization terminal 12 that is in communication with a billing server 14. The card authorization terminal ("CAT") 12, such as those manufactured by VeriFone, Inc., is a device for reading information stored on cards, such as credit cards having magnetically-encoded strips, and transmitting that information to the billing server 14. Information read from cards typically includes an identifier that identifies a financial account, such as a credit card account identifier read from the magnetically-encoded strip, and a transaction amount, such as a purchase price. The CAT 12 is used with such cards in adjusting the balance of the corresponding financial account of the cards.

In a credit card account, the balance is typically an amount of debt, with the balance increasing and decreasing as amounts of debits and credits respectively are applied to the credit card account. In a debit card account, the balance is typically an amount of funds available, and the balance can increase and decrease as amounts of credits and debits

respectively are applied to the debit card account. For example, the card may be used during a transaction to apply an amount of debit to the financial account, such as when a purchase is paid for using the financial account. The card may also be used during a transaction to apply an amount of credit to the financial account, such as when merchandise is returned and a refund for the merchandise is applied to the financial account. As used herein, "applying a charge amount" and "charging" each mean applying a debit amount to a financial account.

The billing server 14 is a computing device that is controlled by or on behalf of a billing party, which is typically an issuer of the financial account. The billing server 14 receives the information transmitted by the CAT 12, and may adjust the indicated financial account by the indicated amount. The billing server 14 in turn transmits to the CAT 12 an indication that the financial account has been adjusted. For example, during a transaction a typical card authorization terminal may receive an authorization code for the transaction, in which the authorization code indicates that a requested debit amount has been applied to the financial account and therefor the transaction has been authorized.

Referring to FIG. 2, the billing server 14 comprises a processor 20, such as one or more conventional microprocessors. The processor 20 is in communication with a data storage device 22, such as an appropriate combination of magnetic, optical and/or semiconductor memory. The processor 20 and the storage device 22 may each be (i) located entirely within a single computer or other computing device; (ii) connected to each other by a remote communication medium, such as a serial port cable, telephone line or radio frequency transceiver; or (iii) a combination thereof. For example, the billing server 14 may comprise one or more computers that are connected to a remote server computer for maintaining databases.

An input device 24 and a printer 26 are each in communication with the processor 20. The input device 24 may comprise a keypad for transmitting input signals, such as signals representative of operator commands, to the processor 20. The printer 26 is for registering indicia on paper or other material, thereby printing billing statements as commanded by the processor 20. Many types of input devices and printers are known to those skilled in the art, and need not be described in detail herein.

The storage device 22 stores a program 28 for controlling the processor 20. The processor 20 performs instructions of the program 28, and thereby operates in accordance with the present invention, and particularly in accordance with the methods described in detail herein. The program 28 furthermore includes program elements that may be necessary, such as an operating system and "device drivers" for allowing the processor 20 to interface with computer peripheral devices, such as the input device 24 and the printer 26. Appropriate device drivers and other necessary program elements are known to those skilled in the art, and need not be described in detail herein.

The storage device 22 also stores (i) an account holder database 30; (ii) a reimbursing party database 32; (iii) a transaction database 34; (iv) a reimbursement rules database 36; and (v) a billing statement database 38. The databases 30, 32, 34, 36 and 38 are described in detail below and depicted with exemplary entries in the accompanying figures. As will be understood by those skilled in the art, the schematic illustrations of, and accompanying descriptions of the databases presented herein are exemplary arrangements for stored representations of information. A number of other arrangements may be employed besides the tables shown. In addition, information which is illustrated as being stored in one database may be stored in one or more other databases. Similarly, the illustrated entries represent exemplary

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information, but those skilled in the art will understand that the number and content of the entries can be different from those illustrated herein.

In the description below, financial accounts which are credit card accounts are described and used in conjunction with the present invention. Those skilled in the art will understand that the present invention is equally applicable to other types of financial accounts, such as debit card accounts or stored value cards such as "smart cards".

Referring to FIG. 3, a table 50 illustrates an embodiment of the account holder database 30 (FIG. 2). The table 50 includes entries 52, 54, 56, 58, 60 and 62, each of which describes a party to be reimbursed that has a financial account with the billing party. Such a party to be reimbursed is also referred to herein as an "account holder". It will be understood by those skilled in the art that the table 50 may include any number of entries. Each of the entries 52, 54, 56, 58, 60 and 62 defines (i) an account identifier 64 for uniquely indicating the financial account; (ii) an account holder name 66; (iii) an account holder billing address 68; (iv) a maximum balance 70; and (v) an available balance 72. The maximum balance 70 is the maximum balance allowed on the financial account at any time. Similarly, the available balance 72 is the difference between the maximum balance and the current balance of the financial account. For example, referring to the entry 54, the financial account identified by "1111-1122-2222-2222" has a \$7,000 maximum balance and a \$3,000 available balance. Accordingly, the current balance of the financial account identified by "1111-1122-2222-2222" is \$4,000 (\$7,000 - \$3,000 = \$4,000). As will be apparent to those skilled in the art, further information, such as account holder telephone numbers, may be stored for each account holder.

Referring to FIG. 4, a table 80 illustrates an embodiment of the reimbursing party database 32 (FIG. 2). The table 80 includes entries 82, 84, 86 and 88, each of which describes a

reimbursing party (a party that has agreed to pay the billing party for at least portions of certain transactions initiated by a party to be reimbursed). It will be understood by those skilled in the art that the table 80 may include any number of entries. Each of the entries 82, 84, 86 and 88 defines (i) a reimbursing party identifier 90 for uniquely indicating the reimbursing party; (ii) a reimbursing party descriptor 92 for describing the name of the reimbursing party, or other information identifying the reimbursing party; and (iii) a total amount due 94 which indicates the total amount that the reimbursing party has agreed to pay the billing party but has not yet paid. A reimbursing party may have agreed to pay for many transactions initiated by a party to be reimbursed. Similarly, a reimbursing party may have agreed to pay for transactions initiated by many parties to be reimbursed. Accordingly, the total amount due 94 may be a sum of several payments that are due. As will be apparent to those skilled in the art, further information, such as a detailed breakdown of the amounts the reimbursing party has agreed to pay and the account identifiers of the corresponding parties to be reimbursed, may be stored for each reimbursing party.

Each reimbursing party has agreed to pay the billing party for at least portions of certain charges initiated by a party to be reimbursed. The billing party maintains a record of how much each reimbursing party owes the billing party. The billing party may also periodically send a bill to each reimbursing party or otherwise notify each reimbursing party how much is owed. Accordingly, the billing party maintains a financial account for each reimbursing party. Such a financial account of the reimbursing party may be uniquely identified by the reimbursing party identifier 90, or alternatively by another identifier. The financial account of the reimbursing party may be a credit card account or debit card account with the billing party. However, the financial account of the reimbursing party need not be a card-based financial

account. On the contrary, the financial account of the reimbursing party need not be an account which affords the reimbursing party with any spending privileges. The financial account of the reimbursing party may simply be a record of how much is owed to the billing party, and may be a tool for auditing only. The financial account of the reimbursing party has a balance indicating the amount owed, and the balance can increase and decrease as amounts of debits and credits respectively are applied to the financial account.

Referring to FIG. 5, a table 100 illustrates a record included in an embodiment of the transaction database 34 (FIG. 2). The transaction database 34 will typically include a plurality of records, each defining the transactions in which a particular financial account of an account holder was used. The table 100 includes an account identifier 102 that uniquely identifies the financial account, and which corresponds to an account identifier of the account holder database 30 (FIG. 2). In the exemplary record depicted in FIG. 5, the account identifier is "1111-1111-1111", which corresponds to the account identifier of the entry 52 (FIG. 3) of the account holder database 30.

The table 100 also includes entries 104, 106 and 108, each of which describes a transaction in which the financial account was used. It will be understood by those skilled in the art that the table 100 may include any number of entries. Each of the entries 104, 106 and 108 defines (i) a transaction identifier 110 that uniquely indicates the transaction; (ii) a merchant identifier 112 that indicates the merchant that participated in the transaction with the account holder; (iii) a POS identifier 114 that indicates the point-of-sale terminal (if any) used in the transaction; (iv) a transaction date 116 indicating when the transaction occurred; (v) a transaction description 118 that specifies various information regarding the transaction, such as the SIC code

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of the merchant and/or the name of the merchant; and (vi) the transaction amount 120. As will be apparent to those skilled in the art, further information may be stored for each transaction.

Referring to FIG. 6, a table 130 illustrates a record included in an embodiment of the reimbursement rules database 36 (FIG. 2). The reimbursement rules database 36 will typically include a plurality of records. Each record defines the reimbursement rules for a financial account of an account holder. The table 130 includes an account identifier 132 that uniquely identifies the financial account, and which corresponds to an account identifier of the account holder database 30 (FIG. 2). In the exemplary record depicted in FIG. 6, the account identifier is "1111-1111-1111", which corresponds to the account identifier of the entry 52 (FIG. 3) of the account holder database 30.

The table 130 also includes entries 134, 136, 138 and 140, each of which describes a reimbursement rule. It will be understood by those skilled in the art that the table 130 may include any number of entries. Each of the entries 134, 136, 138 and 140 defines (i) a reimbursing party identifier 142 that uniquely indicates a reimbursing party, and which corresponds to a reimbursing party identifier 90 (FIG. 4) of the reimbursing party database 32; (ii) a reimbursement condition 144; (iii) a reimbursement amount 146; (iv) a billing destination 148 indicating where a bill is to be sent; (v) a time to reimburse 150; (vi) an account alias 152; and (vii) an allowed frequency of reimbursable transactions 154. As will be apparent to those skilled in the art, further information may be stored for each reimbursement rule.

Each reimbursement rule indicates how a transaction amount is apportioned among a plurality of financial accounts, such as among an account of a reimbursing party and an account of a party to be reimbursed. In the above-described embodiment, each reimbursement rule specifies a reimbursement amount, which is at least a portion of an account holder's

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transaction amount to be paid by the reimbursing party if the transaction satisfies the reimbursement condition. Some representative conditions are illustrated in FIG. 6 and described below.

One reimbursement condition may be that a particular merchant participates in the transaction. For example, the entry 134 has a condition that is satisfied if the merchant that participated in the transaction is "Joe's Office Supplies". As described above, the merchant may be indicated by the merchant identifier 112 (FIG. 5) of the transaction database 34. Thus, it would be determined whether the merchant identifier from indicated reimbursement rule of the reimbursement rules database 36 corresponds to the merchant identifier of the transaction database 34.

Another reimbursement condition may be that the merchant participating in the transaction belongs to a particular category, such as may be indicated by an SIC code. For example, the entry 136 has a condition that is satisfied if the merchant that participated in the transaction is a restaurant.

Another reimbursement condition may be that the transaction indicate that a certain item or type of item is purchased. For example, the CAT 12 (FIG. 1) may use the MasterCard Purchasing Card Level III protocol to transmit data identifying the items purchased to the billing server 14 (FIG. 1).

Another reimbursement condition may be that the transaction amount is (i) within a predetermined range, (ii) less than a predetermined amount, or (iii) equal to a predetermined amount. For example, one reimbursement condition may be that the transaction amount is less than \$100.

Those skilled in the art will realize that a condition may comprise two or more conditions that are connected by Boolean operations, such as "AND", "OR" and "NOT". For example, a condition may be satisfied if the merchant that participated in the transaction is "Joe's Office Supplies" and the transaction amount is less than \$100.

Some reimbursement rules may specify that any transaction satisfies the reimbursement condition. Accordingly, all transactions using the corresponding financial account would be reimbursed if no other restrictions are imposed. For example, the entry 140 has a condition that is always satisfied.

The reimbursement amount may be a specified amount (e.g. \$10), a variable amount (e.g. the transaction amount), or a fixed portion (e.g. 10% of the transaction amount). The reimbursement amount may further be subject to a specified maximum amount, such as "transaction amount, up to \$100" or "10% of the transaction amount, up to \$30". The reimbursement amount may be based on past transactions. For example, the reimbursement amount may be 90% of the portion of the transactions of the year that exceed \$1000. In some embodiments, the reimbursement amount may be determined by a specified "function code", as disclosed in commonly-owned U.S. application Serial No. 08/883.308, entitled "SYSTEM AND METHOD FOR ESTABLISHING AND EXECUTING FUNCTIONS TO AFFECT CREDIT CARD ACCOUNTS AND TRANSACTIONS", filed on June 26, 1997, incorporated by reference. For example, the reimbursement amount may be determined by a function code (also known as a "POS code") which indicates a \$10 reimbursement by the reimbursing party. Such POS codes may be advantageously used by a merchant to provide customers with discounts. Ideally, a corresponding reimbursement condition is that the merchant participate in the

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transaction. Thus, the reimbursement amount is only provided when the customer conducts a transaction with the merchant.

Each reimbursement rule also specifies a time within which the reimbursing party must remit payment to the billing party. Such a time to reimburse is typically measured from the time that a corresponding billing statement is sent to the reimbursing party. The time to reimburse may also be measured from the time of the transaction. If the reimbursing party does not remit payment to the billing party in time, then the amount that was to be paid by the reimbursing party is typically charged to the account holder. In such a situation, the account holder is ultimately liable for paying debt accrued on the financial account. In other embodiments, the account holder is not liable for paying such debt. Accordingly, if the reimbursing party does not remit payment in time, the billing party may take steps to collect such payment from the reimbursing party.

The allowed frequency of reimbursable transactions 154 of a reimbursement rule specifies how often a transaction amount may be reimbursed according to the reimbursement rule. For example, the entry 134 specifies that a transaction may be reimbursed according to this reimbursement rule once only, the entry 136 specifies that transactions may be reimbursed according to this reimbursement rule twice per week, and the entry 138 specifies that transactions may be reimbursed according to this reimbursement rule any number of times without limit. The entry 140 specifies that a transaction may be reimbursed once, and thus the specified POS code may only be used with one transaction. Those skilled in the art will realize that a reimbursement rule may specify that a POS code is used any number of times.

Each reimbursement rule also specifies an account alias. As is described in further detail below, an account alias is an identifier that corresponds to, but is not identical to,

the account identifier 132. Such an account alias may be provided on the billing statement that is sent to the reimbursing party, thereby allowing the reimbursing party to identify the party to be reimbursed without knowing his credit card account identifier.

Referring to FIG. 7, a table 160 illustrates an embodiment of the billing statement database 38 (FIG. 2). The table 160 includes entries 162 and 164, each of which describes information to appear on a billing statement. It will be understood by those skilled in the art that the table 160 may include any number of entries. Each of the entries 162 and 164 defines (i) a transaction identifier 170 that uniquely indicates a transaction that is to appear on a billing statement, and that corresponds to a transaction identifier 110 (FIG. 5) of the transaction database 34; (ii) a transaction amount 172 indicating the amount of the transaction; (iii) a charge amount 174 which indicates a portion of the transaction amount 172 that is applied to a financial account; (iv) a party to charge 176 which indicates a party to pay the charge amount 174; (v) a billing destination 178 that indicates a destination (if any) to which the corresponding billing statement is sent; and (vi) a payment status 180 indicating whether and/or when a bill has been sent to the indicated party, and whether and/or when payment for the charge amount 174 has been received by the billing party. As will be apparent to those skilled in the art, further information may be stored for each entry.

The party to charge 176 is an identifier that corresponds to one of (i) the account identifier 64 (FIG. 3) of the account holder database 30; and (ii) the reimbursing party identifier 90 (FIG. 4) of the reimbursing party database 32. Thus, the party to charge 176 indicates an account holder or a reimbursing party. Similarly, the billing destination 178 corresponds to one of (i) the account holder billing address 68 (FIG. 3) of the account holder database 30; and (ii) the billing destination 148 (FIG. 6) of the reimbursing party database 32. Thus, further

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information regarding a party to charge or a billing destination may be readily determined from databases described above.

In accordance with entries of the billing statement database 38, billing statements may be printed on the printer 26 (FIG. 2) as appropriate. For example, if a billing destination indicates a postal address, a billing statement may be printed and mailed to the postal address. Billing statements may also be transmitted via a network, such as the Internet. For example, if a billing destination indicates an electronic mail address, a billing statement may be generated and sent to the electronic mail address.

Referring to FIG. 8, a process 200 performed by the billing server 14 (FIG. 1) initiates when charge data is received (step 202) from the CAT 12 processing a transaction. The charge data typically includes a transaction amount and an account identifier that specifies an account holder's financial account. The charge data may further include a merchant identifier that uniquely identifies the merchant. Upon receiving the charge data, the billing server 14 may generate a transaction identifier that uniquely identifies the transaction. Alternatively, the charge data may include a transaction identifier. The charge data and transaction identifier are stored in the transaction database 34.

The billing server 14 then determines whether there are any reimbursement rules corresponding to the account identifier (step 204), and thus determines whether there are any reimbursement rules corresponding to the financial account. For example, the received account identifier may be compared with records of the reimbursement rules database 36 to find a record that includes the account identifier. For example, the table 130 (FIG. 6) represents a record that includes an account identifier "1111-1111-1111-1111".

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If there are not any reimbursement rules corresponding to the financial account, then the account holder's financial account is charged in a conventional manner with the transaction amount (step 206). If there are reimbursement rules corresponding to the financial account, then the billing server 14 determines whether any of the reimbursement rules are satisfied (step 208). As described above, each record of the reimbursement rules database 36 includes one or more entries. Each entry describes a reimbursement rule and includes a reimbursement condition. A reimbursement rule is satisfied if the corresponding reimbursement condition is satisfied by the transaction.

If a reimbursement rule is satisfied, the reimbursing party corresponding to that reimbursement rule is determined (step 210). Thus, if an entry includes a reimbursement condition that is satisfied by the transaction, then the reimbursing party is determined from the reimbursing party identifier of the entry. Similarly, a reimbursement amount is also determined from the satisfied reimbursement rule (step 212).

The reimbursement amount is charged to the reimbursing party (step 214). Charging the reimbursing party may comprise generating an entry for insertion into the billing statement database 38 (FIG. 2). Such an inserted entry would include (i) the transaction identifier generated by the billing server 14, (ii) the transaction amount received in step 202, (iii) a charge amount which is the reimbursement amount determined in step 212; (iv) the party to charge, which is the reimbursing party; and (v) the billing destination which is determined with reference to the billing destination 148 (FIG. 6) of the appropriate entry in the reimbursement rules database 36.

The difference between the transaction amount and the reimbursement amount is likewise charged to the account holder (step 216). Charging the account holder may comprise

generating an entry for insertion into the billing statement database 38 (FIG. 2). Such an inserted entry would include (i) the transaction identifier generated by the billing server, (ii) the transaction amount received in step 202, (iii) a charge amount which is the difference between the transaction amount and the reimbursement amount determined in step 212; (iv) the party to charge, which is the account holder and may be identified by the account identifier received in step 202; and (v) the billing destination which is determined with reference to the account holder billing address 68 (FIG. 3) of the appropriate entry in the account holder database 30.

In one embodiment, the available balance of the account holder may be compared with the difference between the transaction amount and the reimbursement amount. If the account holder does not have a sufficient available balance, then the charge would be denied.

For example, referring again to FIG. 5, the entry 106 of the transaction database 34 defines the transaction identified by the transaction identifier "123456", and also indicates that the transaction amount is \$150. Further, the SIC code of the merchant indicates that the merchant is a "medical care provider". Referring again to FIG. 6, shown therein are the reimbursement rules applicable to the appropriate account holder. Particularly, the entry 138 indicates that 95% of the transaction amount is to be reimbursed by the reimbursing party "R730" if the merchant participating in the transaction is a medical care provider. Since the transaction "123456" identified above satisfies this reimbursement condition, reimbursement is to be made and thus the reimbursing party "R730" is to be charged accordingly. Referring again to FIG. 7, the entries 162 and 164 of the billing statement database 38 correspond to the transaction "123456" which has resulted in charges to two financial accounts. The transaction amount \$150 is reflected in each of the entries 162 and 164. The charge amount for the party

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identified by "R730" is \$142.50 (95% of the transaction amount). The charge amount for the party identified by "1111-1111-1111" is \$7.50 (\$150.00 - \$142.50).

The above-described process 200 may be performed during the time that a transaction is initiated and concludes at the CAT 12. Alternatively, steps of the process 200 may be performed some time after the transaction has concluded. For example, the billing server 14 may determine, on a monthly basis, whether any transaction described in the transaction database 34 (FIG. 2) should be reimbursed, as described above. If so, the appropriate reimbursing parties would be charged accordingly.

In the description above, a plurality of financial accounts could each be charged portions of a transaction amount based on whether the transaction satisfied rules stored by the billing server 14 (FIGS. 1 and 2). In other embodiments, a plurality of financial accounts could each be charged portions of a transaction amount based on whether authorization is received from the reimbursing party or another party. As will be apparent to those skilled in the art, the reimbursement rules database may define both reimbursement rules that do not require approval, and reimbursement rules that do.

Referring to FIG. 9, in another embodiment a reimbursement system 228 includes the billing server 14 that is in communication with the card authorization terminal 12 and with a reimbursing party device 230. The reimbursing party device 230 may be a computer, telephone or other device that may receive an approval request from the billing server 14 and transmit a response to the billing server 14.

Referring to FIG. 10, a table 240 illustrates a record included in another embodiment of the reimbursement rules database 36 (FIG. 2). Each record defines the reimbursement rules for a particular financial account. The table 240 includes an account

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identifier 242 that uniquely identifies the financial account, and which corresponds to an account identifier of the account holder database 30 (FIG. 2). In the exemplary record depicted in FIG. 10, the account identifier is "1111-1111-1111-1111", which corresponds to the account identifier of the entry 52 (FIG. 3) of the account holder database 30.

The table 240 also includes entries 244, 246, 248 and 250, each of which describes a reimbursement rule. It will be understood by those skilled in the art that the table 240 may include any number of entries. Each of the entries 244, 246, 248 and 250 defines (i) a reimbursing party identifier 252 that uniquely indicates a reimbursing party, and which corresponds to a reimbursing party identifier 90 (FIG. 4) of the reimbursing party database 32; (ii) a reimbursement condition 254; (iii) a communication address for approval request 256; (iv) a reimbursement amount 258; (v) a billing destination 260; (vi) time to reimburse 262; and (vii) an account alias 264. As will be apparent to those skilled in the art, further information may be stored for each reimbursement rule.

Contrary to the embodiment illustrated in FIG. 6, in the embodiment illustrated in FIG. 10 reimbursement rules indicate a communication address to which a request for approval is sent if the transaction satisfies the corresponding reimbursement condition. For example, the entry 244 indicates that a request for approval is sent to the electronic mail address "finance@corpx.com". The entry 246 similarly indicates that a request for approval is communicated to the telephone number "(203) 555-1234". Telephone numbers may permit a request for approval to be sent to a facsimile machine, to a live operator or to an interactive voice-response unit.

The reimbursing party device 230 (FIG. 9) receives the request for approval, and in turn sends to the billing server 14 a response to the request for approval. If the response

indicates that the reimbursing party has approved the request, then the reimbursing party is charged the reimbursement amount specified by the reimbursement rule. The received response indicates approval or rejection (e.g. a "yes" or a "no" response), and may also indicate further information, such as (i) a financial account from which funds may be transferred to the billing party, or (ii) other information typically included in the reimbursement rules database 36 (FIG. 2), such as a reimbursement amount. If the response indicates a financial account from which funds may be transferred to the billing party, then funds may be transferred automatically, and consequently the reimbursement amount is paid.

In some embodiments, the response may also include an indication of the reimbursement amount to be charged to the reimbursing party. In such embodiments, a reimbursement amount need not be stored in the corresponding entry of the reimbursement rules database 36. The response may also include bearer instrument that is a form of "digital money", also known as "e-cash". Digital money is typically an encrypted digital file containing a list of digital representations of specified amounts of money, each recorded by an issuing bank. A description of different types of "digital money" may be found in "Digital Money, The New Era of Internet Commerce", by Daniel C. Lynch and Leslie Lundquist, and in "Electronic Payment Systems", by Donald O'Mahony, Michael Peirce and Hitesh Tewari. In such an embodiment, not only is the reimbursement amount indicated by the received response, but the payment itself is received in the response, so the reimbursing party does not need to be charged for the reimbursement amount.

Referring to FIGS. 11A and 11B, a process 260 performed by the billing server 14 (FIG. 1) initiates when charge data is received (step 262) from the CAT 12 processing a transaction. The charge data typically includes a transaction amount and an account identifier

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that specifies an account holder's financial account. Upon receiving the charge data, the billing server 14 may generate a transaction identifier that uniquely identifies the transaction.

Alternatively, the charge data may include the transaction identifier. The billing server 14 then determines whether there are any reimbursement rules corresponding to the account identifier (step 264), and thus determines whether there are any reimbursement rules corresponding to the financial account. For example, the received account identifier may be compared with records of the reimbursement rules database 36 to find a record that includes the account identifier.

If there are not any reimbursement rules corresponding to the financial account, then the account holder's financial account is charged in a conventional manner with the transaction amount (step 266). If there are reimbursement rules corresponding to the financial account, then the billing server 14 determines whether any of the reimbursement rules are satisfied (step 267). As described above, each record of the reimbursement rules database 36 includes one or more entries. Each entry describes a reimbursement rule and includes a reimbursement condition. A reimbursement rule is satisfied if the corresponding reimbursement condition is satisfied by the transaction.

If a reimbursement rule is satisfied, the communication address and reimbursing party corresponding to that reimbursement rule are determined (steps 268 and 270, respectively). Thus, if an entry includes a reimbursement condition that is satisfied by the transaction, then the communication address and reimbursing party are determined from the reimbursing party identifier of the entry.

The billing server 14 sends a request for approval to the communication address (step 272), and a response thereto is received (step 274). If it is determined that digital money is not included in the response (step 276), then the reimbursement amount is otherwise determined

(e.g., from the response or reimbursement rules database 36) (step 278). The reimbursement amount is charged to the reimbursing party (step 280). If digital money is included in the response, then the amount of digital money is determined (step 282), and the reimbursement amount is set to be this digital money amount (step 284). The difference between the transaction amount and the reimbursement amount is charged to the account holder (step 286).

In another embodiment, the charge data received from the CAT 12 may include a signal that indicates approval to charge at least a portion of the transaction amount to a second financial account. In such an embodiment, the billing server would not send a request for approval to a communication address, since approval has already been received.

Referring to FIG. 12, a table 280 represents other exemplary information included in the billing statement database 38. The table 280 includes entries 282 and 284 that correspond to a transaction identified by the transaction identifier "987654". Referring again to FIG. 5, the entry 104 of the transaction database 34 defines the transaction identified by the transaction identifier "987654", and also indicates that the transaction amount is \$125. Further, the SIC code of the merchant indicates that the merchant is a "restaurant". Referring again to FIG. 10, shown therein are the reimbursement rules applicable to the appropriate account holder. Particularly, the entry 246 indicates that the transaction amount, up to \$100, is to be reimbursed by the reimbursing party "R729" if the merchant participating in the transaction is a restaurant. Since the transaction "987654" identified above satisfies this reimbursement condition, reimbursement is to be made and thus the reimbursing party "R729" is to be charged accordingly. Referring again to FIG. 12, the entries 282 and 284 of the billing statement database 38 correspond to the transaction "987654" which has resulted in charges to two financial accounts. The transaction amount \$125 is reflected in each of the entries 282 and 284. The charge amount for the party

identified by "R729" is \$100 (the maximum to be reimbursed according to the entry 246 of FIG. 10). The charge amount for the party identified by "1111-1111-1111" is \$25 (\$125 - \$100).

FIG. 13 represents an exemplary billing statement 300 printed for the reimbursing party in accordance with the entry 282 (FIG. 12) of the billing statement database 38. Those skilled in the art will understand that a billing statement may include information that differs from the below-described exemplary billing statements. The billing statement 300 includes indicia indicating an account number 301 (which is an account alias), a transaction identifier 302, a transaction date 304, a transaction description 306, a merchant identifier 308, an amount charged 310 and a billing destination 312. The indicia may be printed on the printer 26 (FIG. 2) based on (i) data stored in the billing statement database 38, such as the transaction identifier 170 and the charge amount 174 (FIGS. 7 and 12), (ii) data stored in the transaction database 34, such as the merchant identifier 112, transaction date 116 and the transaction description 118 (FIG. 5), and (iii) data stored in the reimbursement rules database 36, such as the billing destination 148 and the account alias 152.

FIG. 14 represents an exemplary billing statement 320 printed for the party to be reimbursed in accordance with the entry 284 (FIG. 12) of the billing statement database 38. The billing statement 320 includes indicia indicating the corresponding account identifier 321, transaction identifier 322, transaction date 324, transaction description 326, merchant identifier 328, transaction amount 330, amount charged 332 and billing destination 334. The indicia may be printed on the printer 26 (FIG. 2) based on (i) data stored in the billing statement database 38, such as the transaction identifier 170, transaction amount 172 and the charge amount 174 (FIGS. 7 and 12), (ii) data stored in the transaction database 34, such as the merchant identifier 112,

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transaction date 116 and the transaction description 118 (FIG. 5), and (iii) data stored in the reimbursement rules database 36, such as the billing destination 148.

As described above, an account alias may be stored for each reimbursement rule. For example, each entry of the reimbursement rules database 36 includes a corresponding account alias 152 (FIG. 6). In another embodiment, each financial account may have a single account alias that is revealed to appropriate reimbursing parties.

Referring to FIG. 15, a table 350 represents an account alias database storing account identifiers 352 and corresponding account aliases 354. In embodiments which use such an account alias database, a party to be reimbursed has a corresponding account alias that is revealed to all appropriate reimbursing parties. The account alias database may be stored in the data storage device 22. In other embodiments, an account alias may be generated by applying a "one-way hash function" to the account identifier, or by otherwise encrypting or encoding the account identifier. Many appropriate cryptographic techniques are described in "Applied Cryptography, Protocols, Algorithms, And Source Code In C", by Bruce Schneier.

Referring to FIG. 16, a process 400 is performed by the billing server 14 (FIG. 1) at periodic or predetermined intervals to determine whether any reimbursing parties have not paid the amounts they were charged. The billing server 14 identifies an entry in the billing statement database 38 (FIG. 2) that indicates an unpaid charge (step 402). If it is determined that the entry does not correspond to a reimbursing party (step 404), then the unpaid amount was charged to an account holder, and collection from the account holder is pursued in a conventional manner (step 406). If the entry does correspond to a reimbursing party, then it is also determined whether the time to reimburse has expired (step 408). If so, then the unpaid amount is charged to the corresponding account holder (step 410). The corresponding account holder may be

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determined from the entry by searching the billing statement database 38 for another entry that indicates the same transaction. Such an embodiment assures that liability for unpaid reimbursement amounts rests with the account holder. As described above, in an alternate embodiment the reimbursing party may be held liable, rather than the corresponding party to be reimbursed. If there are any unpaid entries remaining in the billing statement database 38 (step 412), then the above-described steps are repeated. When no unpaid entries remain, the process 400 ends (step 414).

Although the present invention has been described with respect to a preferred embodiment thereof, those skilled in the art will note that various substitutions may be made to those embodiments described herein without departing from the spirit and scope of the present invention. For example, the present invention is applicable to debit card accounts as well as credit card accounts. In addition, an account holder may be reimbursed by more than one reimbursing party.

#### What is claimed is:

1	1.	A method for	processing a	charge	applied to a	a financial	account,	the method	comprising
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- 2 receiving charge data; and
- charging a plurality of financial accounts based on the charge data.
- 1 2. The method of claim1, in which the charge data indicates a first financial account and the
- 2 plurality of financial accounts includes the first financial account.
- 1 3. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data that indicates a transaction amount and a first financial account;
- determining a second financial account that corresponds to the first financial account;
- determining a reimbursement amount that corresponds to the first financial account;
- applying to the first financial account a first charge amount that is based on a difference
- 6 between the transaction amount and the reimbursement amount; and
- applying to the second financial account a second charge amount based on the
- 8 reimbursement amount.
- 1 4. The method of claim 3, further comprising:
- determining a reimbursement rule that corresponds to the charge data; and
- determining if the charge data satisfies the reimbursement rule;
- and in which the step of applying to the second financial account a second charge amount is
- 5 performed if the charge data satisfies the reimbursement rule.

- 1 5. The method of claim 4, in which the reimbursement rule specifies a first merchant
- 2 identifier, and in which the charge data specifies a second merchant identifier;
- and in which the step of determining if the charge data satisfies the reimbursement rule
- 4 comprises:
- determining whether the first merchant identifier corresponds to the second merchant
- 6 identifier.
- 1 6. The method of claim 3, in which the charge data indicates a transaction date;
- 2 and further comprising:
- applying to the first financial account the second charge amount after a predetermined
- 4 time after the transaction date.
- The method of claim 6, in which the step of applying to the first financial account the
- 2 second charge amount is performed if the second charge amount has not been paid before a
- 3 predetermined time.
- 1 8. The method of claim 3, in which the charge data further includes a signal that indicates
- 2 approval to charge at least a portion of the transaction amount to the second financial account.
- 1 9. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data that indicates a first financial account;
- determining a second financial account that corresponds to the first financial account; and
- applying to the second financial account an amount based on the charge data.

- 1 10. The method of claim 9, further comprising:
- determining a reimbursement rule that corresponds to the charge data; and
- determining if the charge data satisfies the reimbursement rule;
- and in which the step of applying is performed if the charge data satisfies the reimbursement
- 5 rule.
- 1 11. The method of claim 10, in which the reimbursement rule specifies a first merchant
- 2 identifier, and in which the charge data specifies a second merchant identifier;
- and in which the step of determining if the charge data satisfies the reimbursement rule
- 4 comprises:
- determining whether the first merchant identifier corresponds to the second merchant
- 6 identifier.
- 1 12. The method of claim 9, in which the charge data further includes a signal that indicates
- 2 approval to charge the second financial account.
- 1 13. The method of claim 9, in which the charge data indicates a transaction date;
- 2 and further comprising:
- applying to the first financial account the amount based on the charge data after a
- 4 predetermined time.

- 1 14. The method of claim 13, in which the step of applying to the first financial account the
- amount based on the charge data is performed if the second charge amount has not been paid
- 3 before a predetermined time.
- 1 15. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data that indicates a transaction amount;
- determining a reimbursement rule that corresponds to the charge data; and
- apportioning the transaction amount among a plurality of financial accounts in
- 5 accordance with the reimbursement rule.
- 1 16. The method of claim 15, in which the step of apportioning is performed if the charge data
- 2 satisfies the reimbursement rule.
- 1 17. The method of claim 16, in which the reimbursement rule specifies a first merchant
- 2 identifier, and in which the charge data specifies a second merchant identifier;
- 3 and in which the step of determining if the charge data satisfies the reimbursement rule
- 4 comprises:
- determining whether the first merchant identifier corresponds to the second merchant
- 6 identifier.
- 1 18. The method of claim 15, further comprising:
- determining the plurality of financial accounts from the reimbursement rule.

- 1 19. The method of claim 15, in which the charge data further includes a signal that indicates
- 2 approval to apportion the transaction amount among the plurality of financial accounts.
- 1 20. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data;
- determining a reimbursement rule that corresponds to the charge data;
- determining if the charge data satisfies the reimbursement rule; and
- 5 charging at least one of a plurality of financial accounts in accordance with the charge
- 6 data if the charge data satisfies the reimbursement rule.
- 1 21. The method of claim 20, in which the reimbursement rule specifies a first merchant
- 2 identifier, and in which the charge data specifies a second merchant identifier;
- and in which the step of determining if the charge data satisfies the reimbursement rule
- 4 comprises:
- determining whether the first merchant identifier corresponds to the second merchant
- 6 identifier.
- 1 22. The method of claim 20, in which the charge data includes a signal that indicates
- 2 approval to charge the at least one of the plurality of financial accounts.
- 1 23. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data;
- determining a communication address that corresponds to the charge data;

- 4 sending a request for approval to the communication address;
- 5 receiving a response to the request for approval; and
- 6 charging at least one of a plurality of financial accounts in accordance with the received
- 7 response.
- 1 24. The method of claim 23, in which the communication address is an electronic mail
- 2 address.
- 1 25. The method of claim 23, in which the communication address is a telephone number.
- 1 26. The method of claim 23, in which the response includes digital money.
- 1 27. The method of claim 23, in which the step of charging a plurality of financial accounts in
- 2 accordance with the received response comprises:
- determining from the received response an amount to charge each financial account.
- 1 28. The method of claim 23, in which the request for approval includes at least a portion of
- 2 the charge data.
- 1 29. The method of claim 23, in which the request for approval includes an account alias.
- 1 30. A method for processing a charge applied to a financial account, the method comprising:
- 2 receiving charge data that indicates a first financial account;

- determining a communication address that corresponds to the charge data;
- sending a request for approval to the communication address;
- 5 receiving a response to the request for approval, the response including a signal
- 6 representing digital money;
- 7 determining an amount of the digital money; and
- 8 charging the first financial accounts in accordance with the amount of the digital money.
- 1 31. The method of claim 30, in which the charge data further indicates a transaction amount;
- 2 and in which the step of charging comprises:
- charging the first financial accounts in accordance with a difference between the
- 4 transaction amount and the amount of the digital money.
- 1 32. The method of claim 30, in which the request for approval includes at least a portion of
- 2 the charge data.
- 1 33. The method of claim 30, in which the request for approval includes an account alias of
- 2 the first financial account.
- 1 34. A method for processing a charge applied to a financial account, the method comprising:
- 2 processing a plurality of entries, each entry including charge data that indicates a
- 3 transaction amount and a first financial account;
- for each entry, determining if there is a second financial account that corresponds to the
- 5 first financial account; and

7		determining a reimbursement amount that corresponds to the first financial
8	accou	nt;
9		applying to the first financial account a first charge amount that is based on a
10	differ	ence between the transaction amount and the reimbursement amount; and
11		applying to the second financial account a second charge amount based on the
12	reimb	ursement amount.
1	35.	A method for processing a charge applied to a financial account, the method comprising:
2		receiving charge data; and
3		determining from the charge data a number of financial accounts to be charged in
4	accor	dance with the charge data.
1	36.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data; and
7		charge a plurality of financial accounts based on the charge data.
1	37.	A computer readable medium encoded with processing instructions for implementing a
2	metho	od for processing a charge applied to a financial account, the method comprising:

if there is a second financial account for the entry

3		receiving charge data; and
4		charging a plurality of financial accounts based on the charge data.
1	38.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device.
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data that indicates a transaction amount and a first financial
7	accour	nt;
8		determine a second financial account that corresponds to the first financial
9	accou	nt;
LO		determine a reimbursement amount that corresponds to the first financial account;
11		apply to the first financial account a first charge amount that is based on a
12	differe	ence between the transaction amount and the reimbursement amount; and
13		apply to the second financial account a second charge amount based on the
14	reimb	ursement amount.
1	39.	A computer readable medium encoded with processing instructions for implementing a
2	metho	d for processing a charge applied to a financial account, the method comprising:
3		receiving charge data that indicates a transaction amount and a first financial account;
4		determining a second financial account that corresponds to the first financial account;
5		determining a reimbursement amount that corresponds to the first financial account:

6		applying to the first financial account a first charge amount that is based on a difference
7	betwee	en the transaction amount and the reimbursement amount; and
8		applying to the second financial account a second charge amount based on the
9	reimbu	arsement amount.
1	40.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data that indicates a first financial account;
7		determine a second financial account that corresponds to the first financial
8	accou	nt; and
9		apply to the second financial account an amount based on the charge data.
1	41.	A computer readable medium encoded with processing instructions for implementing a
2	metho	od for processing a charge applied to a financial account, the method comprising:
3		receiving charge data that indicates a first financial account;
4		determining a second financial account that corresponds to the first financial account; and
5		applying to the second financial account an amount based on the charge data.
1	42.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and

3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data that indicates a transaction amount;
7		determine a reimbursement rule that corresponds to the charge data; and
8		apportion the transaction amount among a plurality of financial accounts in
9	accor	dance with the reimbursement rule.
1	43.	A computer readable medium encoded with processing instructions for implementing a
2	metho	od for processing a charge applied to a financial account, the method comprising:
3		receiving charge data that indicates a transaction amount;
4		determining a reimbursement rule that corresponds to the charge data; and
5		apportioning the transaction amount among a plurality of financial accounts in
6	accor	dance with the reimbursement rule.
1	44.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data;
7		determine a reimbursement rule that corresponds to the charge data;
8		determine if the charge data satisfies the reimbursement rule; and

9		charge at least one of a plurality of financial accounts in accordance with the
10	charge	e data if the charge data satisfies the reimbursement rule.
1	45.	A computer readable medium encoded with processing instructions for implementing a
2	metho	d for processing a charge applied to a financial account, the method comprising:
3		receiving charge data;
4		determining a reimbursement rule that corresponds to the charge data;
5		determining if the charge data satisfies the reimbursement rule; and
6		charging at least one of a plurality of financial accounts in accordance with the charge
7	data i	f the charge data satisfies the reimbursement rule.
1	46.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data;
7		determine a communication address that corresponds to the charge data;
8		send a request for approval to the communication address;
9		receive a response to the request for approval; and
10		charge at least one of a plurality of financial accounts in accordance with the
11	recei	ved response.

1	47.	A computer readable medium encoded with processing instructions for implementing a
2	metho	d for processing a charge applied to a financial account, the method comprising:
3		receiving charge data;
4		determining a communication address that corresponds to the charge data;
5		sending a request for approval to the communication address;
6		receiving a response to the request for approval; and
7		charging at least one of a plurality of financial accounts in accordance with the received
8	respor	ise.
1	48.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data that indicates a first financial account;
7		determine a communication address that corresponds to the charge data;
8		send a request for approval to the communication address;
9		receive a response to the request for approval, the response including a signal
10	repres	senting digital money;
11		determine an amount of the digital money; and
12		charge the first financial accounts in accordance with the amount of the digital
13	mone	y.

1	49.	A computer readable medium encoded with processing instructions for implementing a
2	metho	d for processing a charge applied to a financial account, the method comprising:
3		receiving charge data that indicates a first financial account;
4		determining a communication address that corresponds to the charge data;
5		sending a request for approval to the communication address;
6		receiving a response to the request for approval, the response including a signal
7	repres	enting digital money;
8		determining an amount of the digital money; and
9		charging the first financial accounts in accordance with the amount of the digital money.
1	50.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		process a plurality of entries, each entry including charge data that indicates a
7	transa	ection amount and a first financial account;
8		for each entry, determine if there is a second financial account that corresponds to
9	the fir	est financial account; and
10		if there is a second financial account for the entry
11		determine a reimbursement amount that corresponds to the first financial account
12		apply to the first financial account a first charge amount that is based on a
13	differ	ence between the transaction amount and the reimbursement amount: and

14		apply to the second financial account a second charge amount based on the
15	reimb	ursement amount.
1	51.	A computer readable medium encoded with processing instructions for implementing a
2	metho	od for processing a charge applied to a financial account, the method comprising:
3		processing a plurality of entries, each entry including charge data that indicates a
4	transa	ction amount and a first financial account;
5		for each entry, determining if there is a second financial account that corresponds to the
6	first f	inancial account; and
7		if there is a second financial account for the entry
8		determining a reimbursement amount that corresponds to the first financial
9	accou	nt;
10		applying to the first financial account a first charge amount that is based on a
11	differ	ence between the transaction amount and the reimbursement amount; and
12		applying to the second financial account a second charge amount based on the
13	reimb	sursement amount.
1	52.	An apparatus for processing a charge applied to a financial account, comprising:
2		a storage device; and
3		a processor connected to the storage device,
4		the storage device storing a program for controlling the processor; and
5		the processor operative with the program to:
6		receive charge data; and

- determine from the charge data a number of financial accounts to be charged in accordance with the charge data.
- 1 53. A computer readable medium encoded with processing instructions for implementing a
- 2 method for processing a charge applied to a financial account, the method comprising:
- 3 receiving charge data; and
- determining from the charge data a number of financial accounts to be charged in
- 5 accordance with the charge data.

10

## ABSTRACT OF THE DISCLOSURE

A billing server receives charge data from a card authorization terminal. The charge data indicates a transaction amount, such as a purchase price, and a first financial account, such as a credit card account. The billing server determines a second financial account that corresponds to the first financial account. For example, the second financial account may be the financial account of an insurance company or other reimbursing party. The billing server also determines a reimbursement amount that corresponds to the first financial account. The second financial account is charged the reimbursement amount. Thus, a portion or all of the transaction amount is paid by a reimbursing party. The second financial account is only charged if a reimbursement rule is satisfied. For example, only purchases made at certain types of merchants may be reimbursed. In addition, the billing server may first request approval before charging the second financial account.

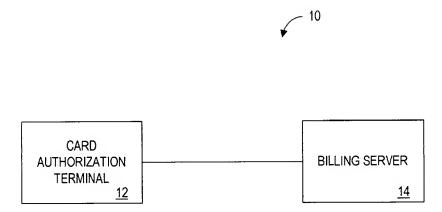


FIG. 1

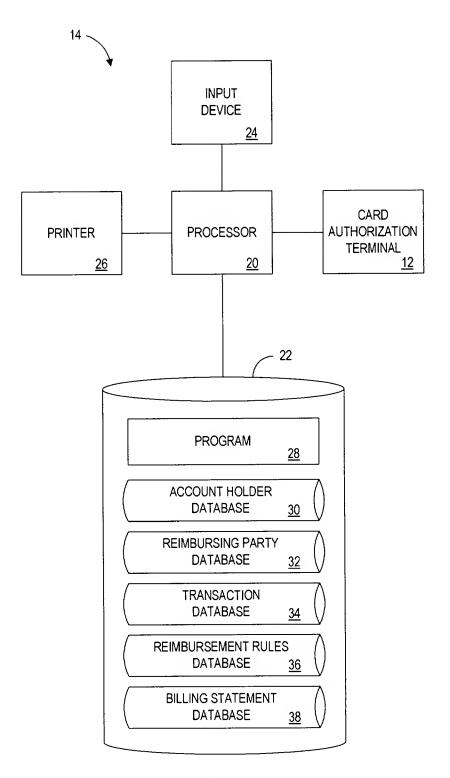


FIG. 2

AVAILABLE BALANCE	72	\$4,975	\$3,000	\$7,500	\$200	\$1,500	\$250
MAXIMUM BALANCE	70	\$5,000	\$7,000	\$10,000	\$1,000	\$4,000	\$1,500
ACCOUNT HOLDER BILLING ADDRESS	89	123 MAIN ST. CITY, STATE	87 PLACE LANE TOWN, USA	18 PLACE RD. TOWN, USA	21 STREET TOWN, USA	98 AVENUE TOWN, USA	55 STREET PLACE, USA
ACCOUNT HOLDER NAME	99	BILL JONES	SUE JOHNSON	TIM SMITH	MARY PARKER	SALLY MARTIN	MIKE McDONALD
ACCOUNT	64	1111-1111-1111	1111-1122-222-2222	1111-9824-2345-6523	1111-4397-9371-9571	1111-9471-3856-1936	1111-0385-2987-0973
	ç		22		/	8	25

FIG. 3

FIG. 4

-1111-1111	ACTION TRANSACTION TRANSACTION ATE DESCRIPTION AMOUNT	116 120	7/98 SIC CODE: 5182 \$125.00 RESTAURANT	SIC CODE: MEDICAL \$150.00 CARE PROVIDER	MFRCHANT CODE:
ACCOUNT IDENTIFIER 1111-1111-1111	POS TRANSACTION DENTIFIER DATE	114	AB 123 4/7/98	CD 234 4/7/98	XV 397 47798
ACCO	MERCHANT IDENTIFIER IE	112	99999	55555	00000
	TRANSACTION	110	987654	123456	402205

FIG. 5

132	ALLOWED FREQUENCY OF TRANSACTIONS	2 154	ONE TIME ONLY	TWICE / WEEK	NO LIMIT	ONE TIME PER CODE
	ACCOUNT ALIAS	152	1111-1111- WJONES	1111-1111- WJONES	1234567890	BILLYJONES82
-1111	TIME TO REIMBURSE	150	60 DAYS	30 DAYS	30 DAYS	30 DAYS
ACCOUNT IDENTIFIER 1111-1111-1111-1111	BILLING DESTINATION	148	OFFICEMANAGER@ CORPX.COM	PO BOX 1 CHICAGO, ILLINOIS	1 CORPORATE PARK. LOS ANGELES, CA	1 MAIN ST. BOSTON, MA
ACCOUNT IDENTI	REIMBURSEMENT AMOUNT	146	50% OF TRANSACTION UP TO \$80	TRANSACTION AMOUNT UP TO \$100	95% OF TRANSACTION 1 CORPORATE PARK. AMOUNT LOS ANGELES, CA	POS CODE 234 (\$10)
	REIMBURSEMENT CONDITION	144	MERCHANT CODE: JOE'S OFFICE SUPPLY	SIC CODE: RESTAURANT	SIC CODE: MEDICAL CARE PROVIDER	ALWAYS
	REIMBURSING PARTY IDENTIFIER	142	R 729	R 729	R 730	R 731

FIG. 6

	TRANSACTION	TRANSACTION AMOUNT	CHARGE	PARTY TO CHARGE	BILLING DESTINATION	PAYMENT STATUS
16.2	170	172	174	176	178	180
3 2	123456	\$150.00	\$142.50	R 730	1 CORPORATE PARK LOS ANGELES, CA	BILLED 4/29/98 PAID 5/13/98
\$	123456	\$150.00	\$7.50	1111-1111-1111	123 MAIN ST. CITY, STATE	BILLED 4/30/98 NOT PAID

FIG. 7

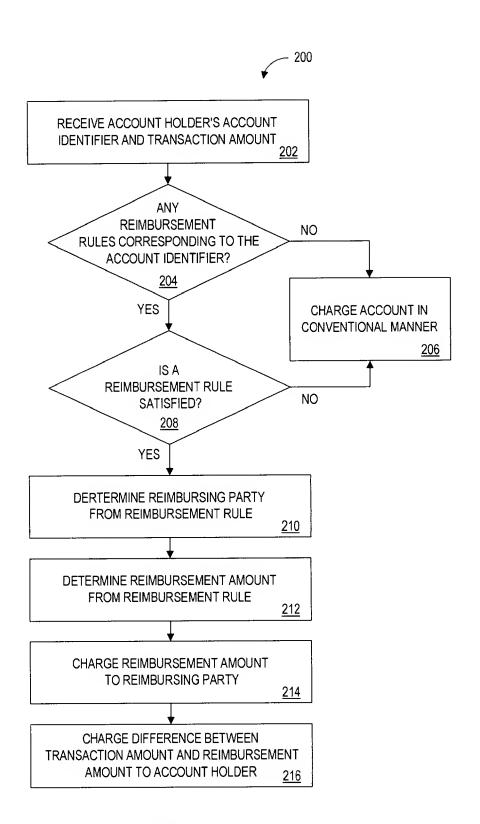


FIG. 8

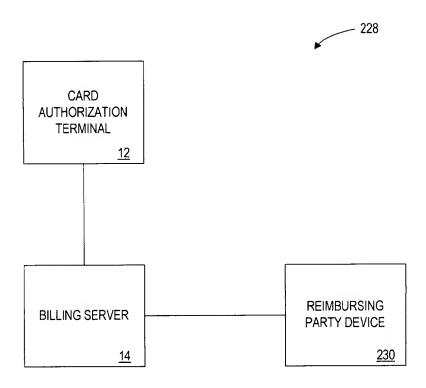
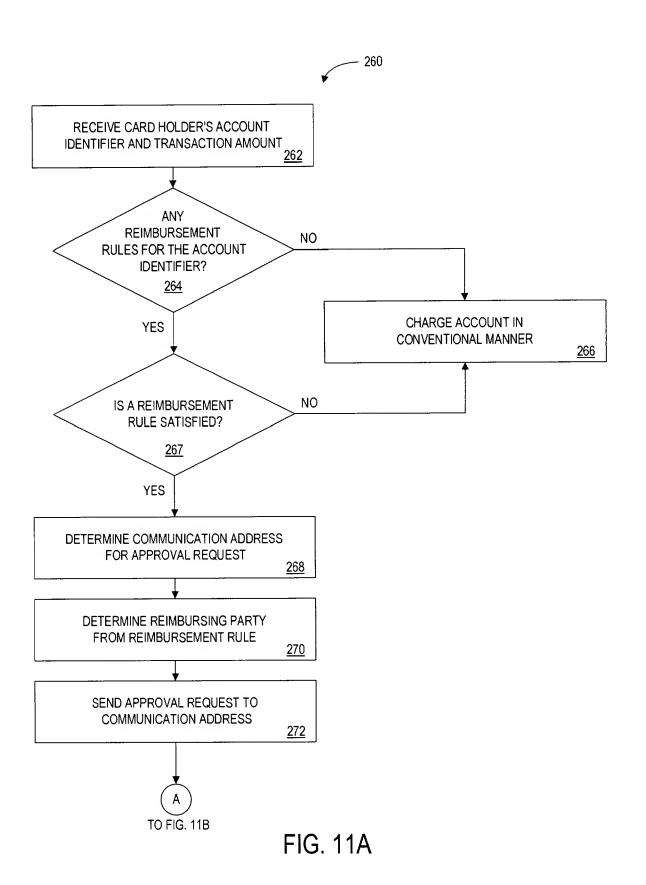


FIG. 9

			ACCOUNT IDE	ACCOUNT IDENTIFIER 1111-1111-1111-1111	-1111	:	242
	REIMBURSING PARTY IDENTIFIER	REIMBURSEMENT CONDITION	COMMUNICATION ADDRESS FOR APPROVAL	REIMBURSEMENT AMOUNT	BILLING	TIME TO REIMBURSE	ACCOUNT ALIAS
777	252	254	REQUEST <u>256</u>	258	260	262	264
,	R 729	MERCHANT CODE: JOE'S OFFICE SUPPLY	FINANCE@ CORPX.COM	50% OF TRANSACTION UP TO \$80	OFFICEMANAGER@ CORPX.COM	60 DAYS	1111-1111- WJONES
	R 729	SIC CODE: RESTAURANT	203-555-1234	TRANSACTION AMOUNT UP TO \$100	PO BOX 1 CHICAGO, ILLINOIS	30 DAYS	1111-1111- WJONES
ين 🗲	R 730	SIC CODE: MEDICAL CARE PROVIDER	212-555-8888	95% OF TRANSACTION 1 CORPORATE PARK. AMOUNT LOS ANGELES, CA	1 CORPORATE PARK. LOS ANGELES, CA	30 DAYS	1234567890
3	R 731	ALWAYS	617-555-8765	POS CODE 234 (\$10)	1 MAIN ST. BOSTON, MA	30 DAYS	BILLYJONES82

FIG. 10



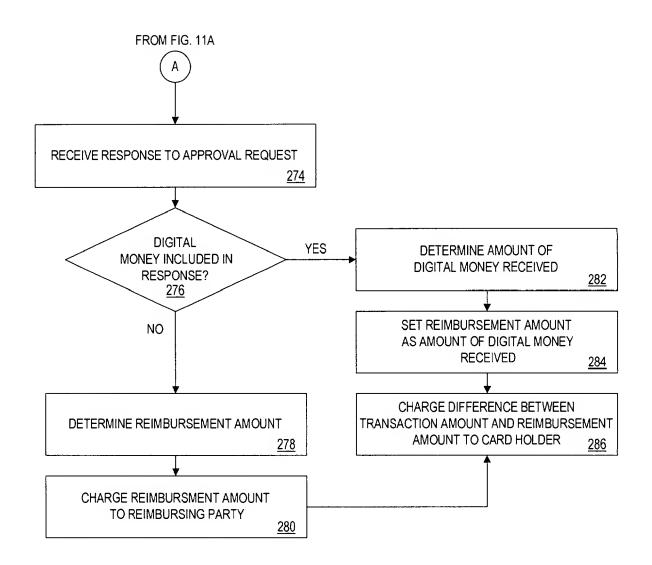


FIG. 11B

	TRANSACTION IDENTIFIER	TRANSACTION AMOUNT	CHARGE AMOUNT	PARTY TO CHARGE	BILLING DESTINATION	PAYMENT STATUS
282	170	172	174	176	178	180
7 82	987654	\$125.00	\$100.00	R 729	PO BOX 1 CHICAGO, IL	BILLED 5/1/98 NOT PAID
5	987654	\$125.00	\$25.00	1111-1111-1111	123 MAIN ST. CITY, STATE	BILLED 5/7/98 NOT PAID

FIG. 12

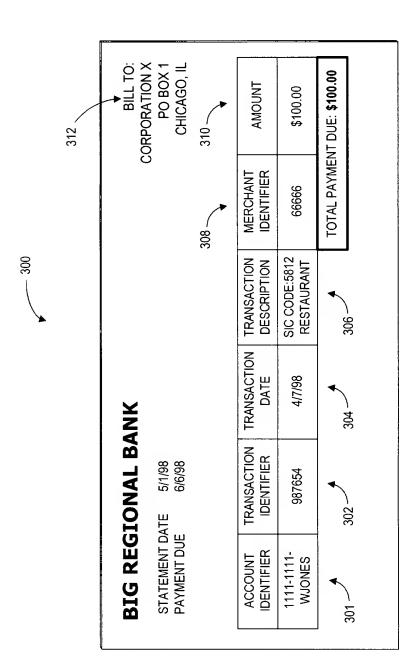


FIG. 1.

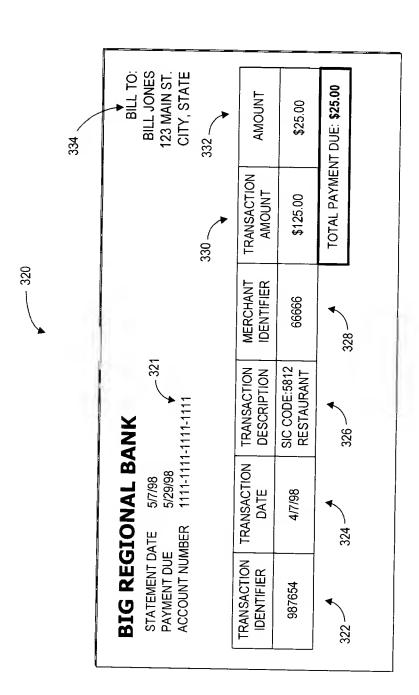


FIG. 12

320	,	 

AT ACCOUNT ER ALIAS	<u>352</u> <u>354</u>	11-1111 1111-BCDE-ЕFGH	22-222 1111-1122-ABCD-EFGH	15-6523 1111-9824-8549-ASIB	71.9571 1111.4397.4GHZ-VEBT
ACCOUNT		1111-1111-1111-1111	1111-1122-222-2222	1111-9824-2345-6523	1111-4397-9371-9571

FIG. 15

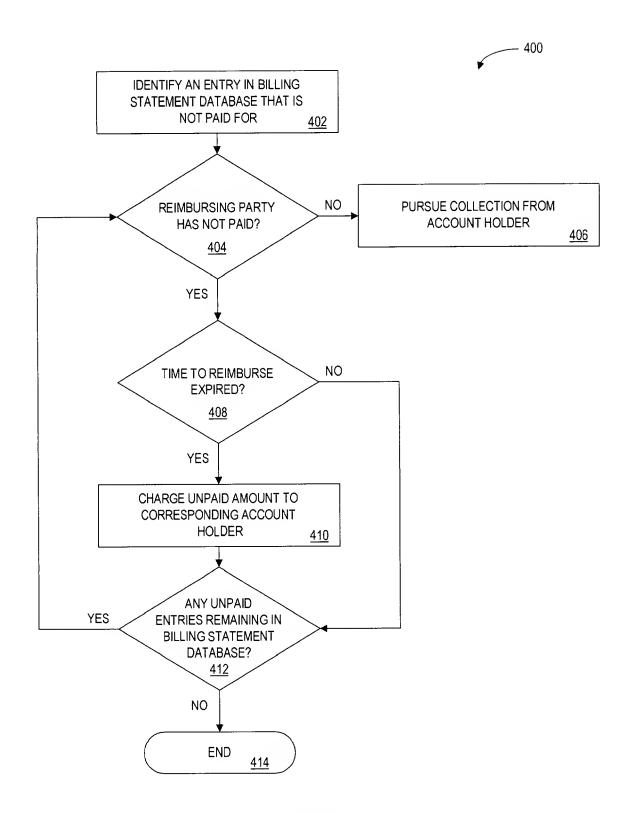


FIG. 16

## **COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name(s). I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## SYSTEM AND METHOD FOR PROCESSING A CHARGE APPLIED TO A FINANCIAL ACCOUNT

the specification	n of which (check one)				
<b>×</b>	applicable), or was described and claimed	as application serial no in international application no			
the claims, as	amended by any ame	nd understand the contents of the ndment referred to above, and the for which a patent is sought.	above-identified sp nat it contains a full	ecification, , clear, cor	including rcise and
I acknowledge accordance wit	the duty to disclose h Title 37, Code of Fed	information which is material to eral Regulations, § 1.56(a).	the examination o	f this appl	ication in
		Prior Application(s)			
☐ § 119, by cher International ap	cking the box(es) belo	I hereby claim foreign priority benow, any foreign application(s) for date before that of the application	patent or inventor's	s certificate	tes Code , or PCT
Prior Foreign A	pplication(s)			Priority C	laimed?
(Number)	(1)	Country)	(Day/month/year filed)	_ ⊐ yes	☐ no
,				□yes	□ no
(Number)	(1	Country)	(Day/month/year filed)		
application is n of Title 35, Uni Title 37, Code	application(s) listed b tot disclosed in the price ted States Code § 112 of Federal Regulations	I hereby claim the benefit under Tielow and, insofar as the subject or United States application in the I acknowledge the duty to disclose § 1.56(a) which occurred betwee filing date of the application:	matter of each of manner provided by se material informati	f the claim the first page on as defin	s of this aragraph led in the
Prior U.S. Appl	ication(s)				
(Application Numb	er)	(Day/month/year filed)	(Status – Issued,	pending, abai	ndoned)
(Application Numb	er)	(Day/month/year filed)	(Status - Issued.	pending, aba	ndoned)
(Application Numb	er)	(Day/month/year filed)	(Status - Issued,	pending, aba	ndoned)
٦	(Check if applicable)	In this continuation-in-part appli	cation, insofar as th	ne subject	matter of

any of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose material information as defined in the Title 37, Code of Federal Regulations § 1.56(a) which occurred between

the filing date of the prior application and the national or PCT international filing date of the application.

Inventor's signature

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge and the like so made are punishable by fine or imprisonment, or both under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint Jeffrey L. Brandt - Reg. No. 31,490, Robert R. Lech - Reg. No. 37,169 and Dean Alderucci - Reg. No. 40,484 as my attorneys and Charles A. Rattner - Reg. No. 40,136 as patent agent, all of Walker Digital Corporation, whose address is Five High Ridge Park, Stamford, Connecticut 06905-1326 with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please address all written correspondence to:

Dean Alderucci Walker Digital Corporation Five High Ridge Park Stamford, Connecticut 06905-1326 Phone (203) 705-3006 Fax (203) 595-8266

Wherefore I pray that Letters Patent be granted to me for the invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification and claims, declaration, power of attorney, and this petition.

Residence: 168 South Wind Drive, Wallingford, CT 06492 Post Office Address: same as above Citizenship: U.S.A.  nventor's signature	Date June 16, 1998
Residence: 124 Spectacle Lane, Ridgefield, CT 06877 Post Office Address: same as above Citizenship: U.S.A.	Date June 16, 1998
Full name of third inventor: Daniel E. TEDESCO Residence: 192 Park Street, Apt. 6, New Canaan, CT, 06840 Post Office Address: same as above Citizenship: U.S.A.	
Inventor's signature	Date June 16, 1998
Full name of fourth inventor: Andrew S. VAN LUCHENE Residence: 13-2a Clarmore Drive, Norwalk, CT 06850 Post Office Address: same as above Citizenship. U.S.A. Inventor's signature	Date June 16, 1998
miveritor 3 signature	Bato Ballo 101 1000
Full name of fifth inventor: James A. JORASCH Residence: 25 Forest Street, Apt. 5G, Stamford, CT 06901 Post Office Address: same as above Citizenship: U.S.A.	

June 16, 1998

Date

Applicant or Patentee: Serial/Patent No.:

Magdalena Mik, et al.

Not Yet Assigned

Filed/Issued: For:

June 16, 1998

System and Method for Processing a Charge Applied to a Financial Account

Docket No. WD2-98-017

## VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

Lhoroby	doctors that I am			
C.	declare that I am			
		nall business conce nall business conce	rn identified below rn empowered to act on behalf of the co	ncern identified below:
NAME C	F CONCERN:	Walker Asset Man	agement Limited Partnership	
	SS OF CONCERN		Park. Stamford, CT 06905-1325	
I hereby	declare that the abo	ve identified small h	nusiness concern qualifies as a small hi	usiness concern as defined in 13CFR 121.3-18, and
•			<b>'</b>	) and (b) of Title 35, United States Code, in that the
•	•		• •	500 persons For purposes of this statement, (1) the
			·	ear of the concern of the persons employed on a full-
	• •		•	(2) concerns are affiliates of each other when either,
				d party or parties controls or has the power to control
both.	or maneaty, one con		the power to contain the other, or a time	a party of parties dominous of flats the power to solution
				with the small business concern identified abovewith
regard to	the invention, entitle	ed by inventor(s) d	escribed in	
×	the specification fil		,	
	application serial n	0	, I	îled
_		· · · · · · · · · · · · · · · · · · ·	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
If the rig	hts held by the abov	e identified small be	usiness concern are not exclusive, eac	h individual, concern or organization having rights to
the inver	ntion is listed below*	and no rights to the	invention are held by any person, other	er than the inventor, who could not qualify as a small
business	s concern under 37 (	CFR 1 9 (d) or by a	ny concern which would not qualify as a	a small business concern under 37 CFR 1 9 (d) or a
nonprofit	t organization under	37 CFR 1 9 (e)		
			are required from each named person. nall entities (37 CFR 1 27)	concern or organization having rights to the
NAME				
ADDRES	SS			
	☐ Individual		☐ Small Business Concern	☐ Nonprofit Organization
NAME				
ADDRES	SS		·	
	☐ Individual		☐ Small Business Concern	☐ Nonprofit Organization
1	olandara Alexandrika Asa El	- :- <b>M</b> -:		
			· · · · · · · · · · · · · · · · · · ·	status resulting in loss of entitlement to small entity
			-	tenance fee due after the date on which status as a
small en	tity is no longer appr	opriate (37 CFR 1.	28 (b))	
I hereby	declare that all state	ements made hereir	n of my own knowledge are true and th	at all statements made on information and belief are
believed	to be true, and furth	ner that these stater	nents were made with the knowledge the	hat willful false statements and the like so made are
			· · · · · · · · · · · · · · · · · · ·	d States Code, and that such willful false statements
				to which this verified statement is directed
	OF PERSON SIGNIN		Jay S Walker	
TITLE O	F PERSON OTHER	THAN OWNER		as General Partner of Walker Asset Management
ADDRES	SS OF PERSON SIG	SNING	Limited Partnership Four High Ridge Park, Stamford, CT	06905
	<			
SIGNAT	UKE		DATE	June 16, 1998